BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 4999000.00

Name of Work: Detailed Estimate for the work of Construction of drains, Improvements to roads balance main and cross roads of Susheelamma layout and Isaq layout in ward No- 02 of yelahanka Sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3 No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	berm cutting		2	280.00	1.50	0.20	168.00		
			2	360.00	1.50	0.20	216.00		
	roads	5x2	10	40.00	1.00	0.20	80.00		
		2x2	4	45.00	1.00	0.20	36.00		
	desilting of existing drains		2	280.00	0.45	0.30	75.60		
			2	360.00	0.45	0.30	97.20		
		5x2	10	40.00	0.45	0.30	54.00		
		2x2	4	45.00	0.45	0.30	24.30		
							751.10	75.60	56783.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications. specification. No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	for RCC drain		2	30.00	1.00	0.90	54.00		
	culvert		3	7.00	1.50	1.00	31.50		

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							85.60	176.04	15051.00
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							
	Total	176.04							
3	KSRB 100-1 Loading and unloading of stone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumping turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 coslof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M /item No 17.4 Page 130 (SR 2014-15)	cum							
			Vide Item No. 1+2				836.60	79.10	66174.00
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k.m. = 1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	79.10							
4	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. E 32/ PWD SR 2014-15	Sqm							
		1x2	2	280.00	1.65		924.00		
		4x2	8	45.00	1.65		594.00		
		2x2	4	45.00	1.65		297.00		
							1815.00		
	consider 50%						907.50	58.32	52925.40
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	58.32							
5	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2014-15	Sqm							
							907.50		
							907.50	75.60	68607.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc. complete Page No. 25/ Item No. 5.51.1/ PWD SR 2014-15	Sqm							
	missing qty 30%						544.50		
							544.50	639.36	348131.52
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	639.36							
7	KSRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305,4.3, No. 144/ Item No. 19.60/ PWD SR 2014 15	cum							
			1	30.00	7.00	0.45	94.50		
							94.50	220.32	20820.00
	Basic Rate	204.00							
	Area Weightage @ 8%	16.32							
	Total	220.32							
8	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	for rcc drain		2	30.00	0.90	0.15	8.10		
	culvert		3	7.00	1.50	0.15	4.73		
							12.83	5064.12	64947.00
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	5064.12							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSR6 4 2 2 Providing and laying in position plain cement concrete of mix M20 withOPC cemeat @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.490cum with superplasiesisre @ 3lls conforming to ISs103-1959Reffirmed nsacking mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for rool slabs staircase, lintels, retaining walls, return walls, walls(any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or facing courses, parapets, coping, bed blocks, ancher blocks, plain window cills, fillets etc, including cost of all materials, labour HQM of machinery curing, complete as per specifications Spacification No KBS 4 1 4 6 No KBS 4.1.4 6, No 13/ Item No 4 11/ PWD SR 2014-15	Cum							
	for rcc drain bed		2	30.00	0.90	0.15	8.10		
	side walls	2x2	4	30.00	0.15	0.70	12.60		
	for culvert		3	7.00	1.20	0.30	7.56		
	side walls		6	7.00	0.30	0.90	11.34		
	deck		3	7.00	1.20	0.30	7.56		
	coping	2x2	4	280.00	0.20	0.10	22.40		
		4x2	8	45.00	0.20	0.10	7.20		
							76.76	6065.28	465571.00
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	6065.28							
10	KSR6 4 9 2 providing T M.T steel reinforcement for R.C.C work including straighlening, cutting, bonding, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per deaign (laps, hooks and wastage shall not bo measured and paid) cost pf materials, labour, HQM of machinery complete as per specifications, Specification No, KBS 4.6.3 Page No. 19/ Item No, 4 46/ PWD SR 2014-15	Quintal							
	90 kg/cum for culvert		0.900	47.16			42.44		
				47.16			42.44	7254.60	307923.00
	Basic Rate	7254.60							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4-8 d : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for vertical surface such as walls at any thickness, attached pilasters,biltrasses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	rcc drain	2x4	8	30.00		0.70	168.00		
	side walls	3x4	12	7.00		0.90	75.60		
	deck	3x1	3	7.00	1.20		25.20		
							268.80	292.68	78672.00
	Basic Rate	271.00	✓						
	Area Weighlage @ 8%	21.68	✓						
	Total	292.68	✓						
12	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement monar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No 25 item No 5.27 SR 2014-15	sqm							
		2x2	4	280.00		0.40	448.00		
		2x2	4	45.00		0.40	72.00		
							520.00	993.60	516672.00
	Basic Rate	920.00	✓						
	Area Weighlage @ 8%	73.60	✓						
	Total	993.60	✓						
13	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No.25 item No 5.30 SR 2014-15	Nos							
			2	280.00			560.00		
							1244.44		
							1244.44	304.56	379008.00
	Basic Rate	282.00	✓						
	Area Weighlage @ 8%	22.56	✓						

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	304.56							
14	RCC Precast covering slab for drain (10cm thick)	sqm							
	for rcc drain		2	30.00		0.90	54.00		
			2	280.00		0.90	504.00		
			2	45.00		0.90	81.00		
							639.00	1498.00	957222.00
	Rate Approved by BBMP	1498.00							
15	KSRRB M400-6.1: construction of granular sub case providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A plant Mix methold, gradding I / Item No. 20.4 , No. 151, I SR 2014-15	cum							
			5	40.00	4.00	0.15	120.00		
			1	30.00	7.00	0.15	31.50		
							151.50	1391.04	210743.00
	Basic Rate	1288.00							
	Area Weightage @ 8%	103.04							
	Total	1391.04							
16	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications MORTH specification NO. 406, No. 154, item No 20.18 SR 2014-15	cum							
			5	40.00	4.00	0.20	160.00		
			1	30.00	7.00	0.20	42.00		
							202.00	1438.56	290569.00
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	1438.56							

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRRB M500-6: providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15	sqm							
			5	40.00	4.00		800.00		
			1	30.00	7.00		210.00		
							1010.00	35.21	35560.00
	Basic Rate	32.60	/						
	Area Weighage @ 8%	2.61	/						
	Total	35.21	/						
18	KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5, using 40@0 TPH capacity HMP with Mechanical Paver Grade (50 mm to 100mm) with 3.1% VG30 Bitumen No. 150/ Item No. 21.11.5/ PWD SR 2014-15	cum							
	for camber correction		5	40.00	2.90	0.050	29.00		
			1	30.00	4.00	0.050	6.00		
							35.00	6624.72	231865.00
	Basic Rate	6104.00	/						
	Area Weighage @ 8%	490.72	/						
	Total	6624.72	/						
19	KSRRB 500-7: providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5, No. 157/ Item No. 21.7/ SR 2014-15	sqm							
			5	40.00	4.00		800.00		
			1	30.00	7.00		210.00		
	Basic Rate	17.35					1010.00	18.74	18925.00
	Area Weighage @ 8%	1.39	/						

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	18.74							
20	KSRRB M500-16: providing and laying Semidence bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading II (25-30mm) with 5% CRMB -55 grade, No. 160/ Item No. 21.21.6 SR 2014-15	cum							
			5	40.00	4.00	0.025	20.00		
			1	30.00	7.00	0.025	5.25		
	Basic Rate	10066.00					25.25	10871.28	274500.00
	Area Weightage @ 8%	805.28							
	Total	10871.28							
							Sub Total		4460689.00
21	KRIDL Charges + Labourcess 11%								490676.00
22	1% of Quality control charges								44607.00
23	Miscellaneous charges								3028.00
								Total	4999000.00
	(Rupees Forty nine Lakhs ninty nine thousand Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

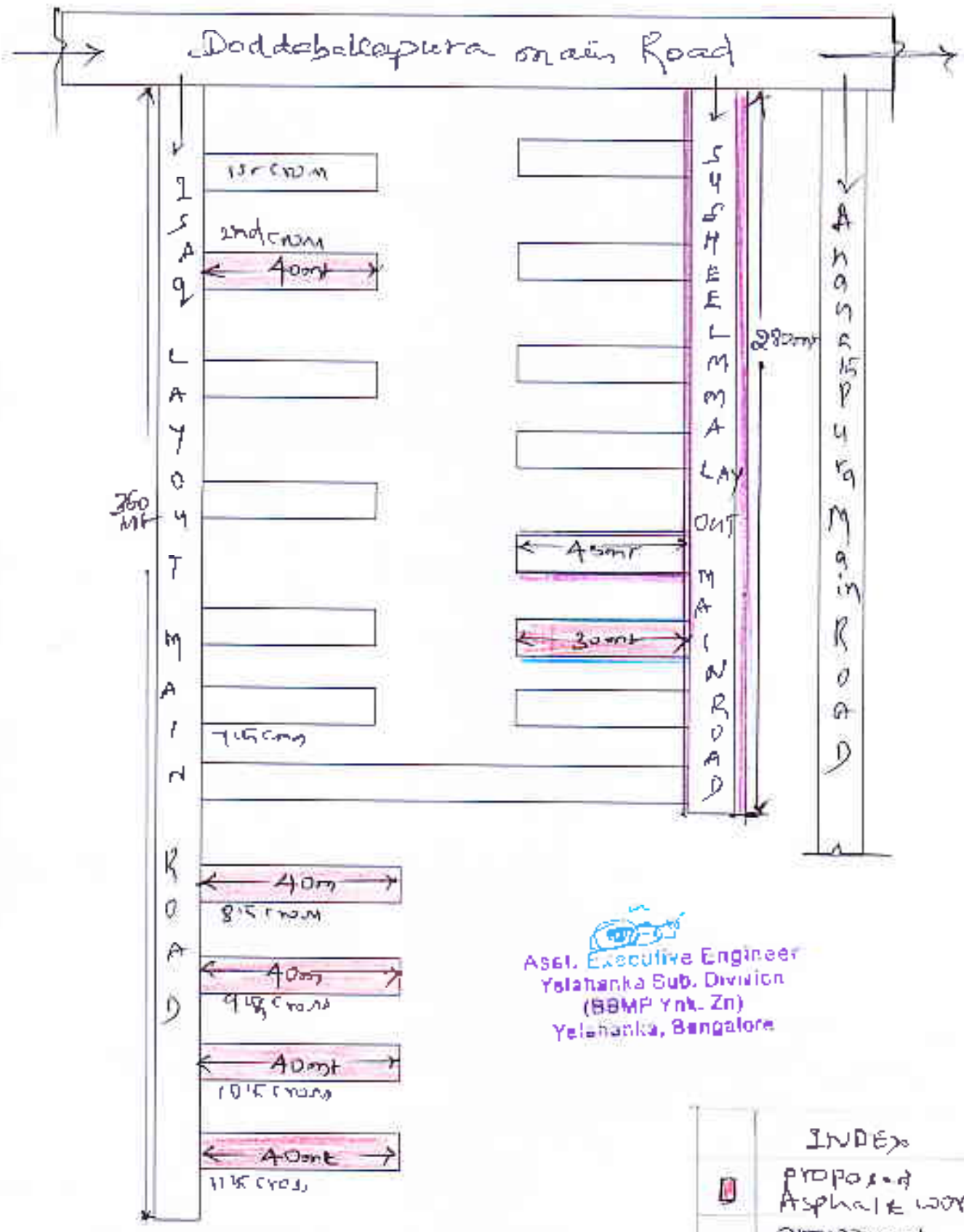
Administrative Sanction for Rs.....
Technical Sanction is Accorded for Rs "49.99" lakhs
is accorded under head.....
PO190
registered at CE No. 75 Dt. 04.12.14 Subject to Conditions contained in enclosed memo
No...../.....Dr.....

Chief Engineer (CE (NTP))
Yelahanka Zone

ADMINISTRATIVELY SANCTIONED FOR Rs 49.99 lakhs
Rupees Forty nine lakhs ninty nine thousand only
Under.....
Registered at Sl. No. 3 9
Subject to conditions contained in enclosed memo No. CE ( ) No. 91
Dt. ..... Estimate Sanctioned
Add. Comm. (Yz) BS/ 1049/14-15
Dated 4-12-2014 Rs 49.99 lacs

Addl. Commissioner

Name of Work: Construction of drains, improvements to roads balance main and cross roads of Susheelamma layout and Isaq layout in ward No- 02 of yelahanka Sub division.



Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

	INDEX
	Proposed Asphalt work
	Proposed flagging Curve
	Proposed Raod drain

Ramanjaneiah
AE